


Product datasheet

Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34] ab181095

KO VALIDATED Recombinant RabMAb

★★★★★ 1 Abreviews 4 Images

Overview

Product name	Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34]
Description	Rabbit monoclonal [EPR13194-34] to Actin Regulatory Protein CAPG/MCP
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: THP-1, U937 and HeLa cell lysates.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EPR13194-34

IsotypeIgG

Applications

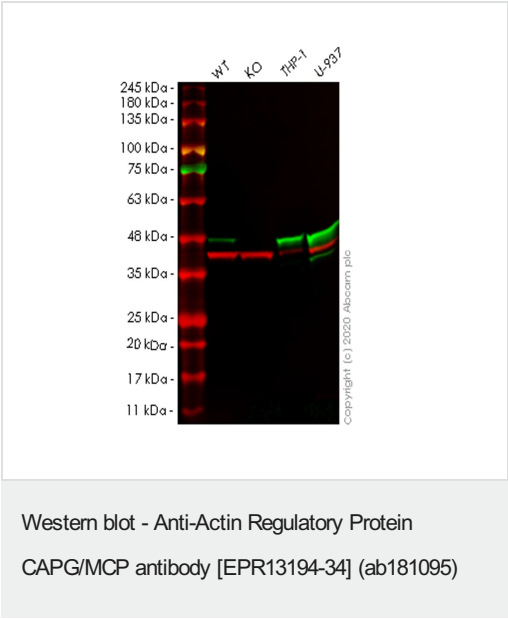
The **Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab181095 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000 - 1/50000. Detects a band of approximately 39 kDa (predicted molecular weight: 38 kDa).

Target

Function	Calcium-sensitive protein which reversibly blocks the barbed ends of actin filaments but does not sever preformed actin filaments. May play an important role in macrophage function. May play a role in regulating cytoplasmic and/or nuclear structures through potential interactions with actin. May bind DNA.
Tissue specificity	Macrophages and macrophage-like cells.
Sequence similarities	Belongs to the villin/gelsolin family. Contains 3 gelsolin-like repeats.
Post-translational modifications	The N-terminus is blocked.
Cellular localization	Cytoplasm. Nucleus. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



All lanes : Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34] (ab181095) at 1/1000 dilution

- Lane 1 :** Wild-type HeLa cell lysate
- Lane 2 :** CAPG knockout HeLa cell lysate
- Lane 3 :** THP-1 cell lysate
- Lane 4 :** U-937 cell lysate

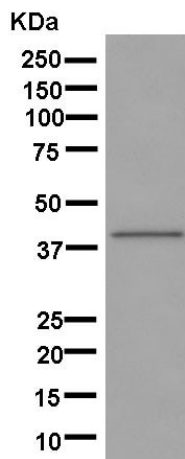
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 38 kDa
Observed band size: 48 kDa

Lanes 1-4: Merged signal (red and green). Green - ab181095 observed at 48 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab181095 Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34] was shown to specifically react with Actin Regulatory Protein CAPG/MCP in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265766** (knockout cell lysate **ab257378**) was used. Wild-type and Actin Regulatory Protein CAPG/MCP knockout samples were subjected to SDS-PAGE. ab181095 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



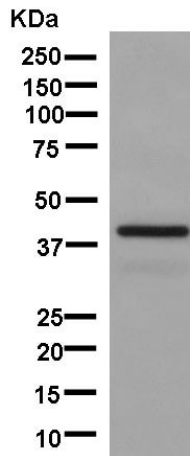
Western blot - Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34] (ab181095)

Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34] (ab181095) at 1/10000 dilution + HeLa cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 38 kDa



Western blot - Anti-Actin Regulatory Protein
CAPG/MCP antibody [EPR13194-34] (ab181095)

Anti-Actin Regulatory Protein CAPG/MCP antibody [EPR13194-34]
(ab181095) at 1/50000 dilution + U937 cell lysate at 20 µg

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000
dilution

Predicted band size: 38 kDa

Why choose a recombinant antibody?



**Research with
confidence**
Consistent and
reproducible results



**Long-term and
scalable supply**
Recombinant
technology



**Success from the
first experiment**
Confirmed
specificity



**Ethical standards
compliant**
Animal-free
production

Anti-Actin Regulatory Protein CAPG/MCP antibody
[EPR13194-34] (ab181095)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- We investigate all quality concerns to ensure our products perform to the highest standards

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